

BUB/CTE/2014-15

DATE: 20-01-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)

{Project*: Improvements to Roads, drains and Covering Slab at Chamundeshwari Layout
5th Main road left side in Ward No.10 (Doddabommasandra), Vidyaranyapura
Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 19-01-2015

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	22-12-14	19-01-15	28	22500	550	24.44	24.22
	002	"	"	"	"	545	24.22	
	003	"	"	"	"	540	24.00	
2	004	"	"	"	"	540	24.00	23.33
	005	"	"	"	"	525	23.33	
	006	"	"	"	"	510	22.66	
3	007	"	"	"	"	500	22.22	22.81
	008	"	"	"	"	520	23.11	
	009	"	"	"	"	500	22.22	
4	010	"	"	"	"	535	23.77	23.77
	011	"	"	"	"	540	24.00	
	012	"	"	"	"	530	23.55	

*As Furnished by Client.

The Results relate only to the items tested.

Page No. 1/1,

G.R. HARISH

Professor

Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.

Dr. MANJESH L.
ME(Civil Engg.) Ph.D. MISTE, MIRC
Associate Professor
Department of Civil Engineering
Bangalore University, Jnanabharathi Campus,
BANGALORE 560 056.
E-mail: manieshl@yahoo.com

BANGALORE UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING

Phone Off: 080-22961935 / 1946
E-mail: centrans9@gmail.com

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15

DATE: 20-01-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)

{Project*: Improvements to Roads, drains and Covering Slab at Chamundeshwari Layout
5th Main road left side in Ward No.10 (Doddabommasandra), Vidyaranyapura
Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 19-01-2015

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	22-12-14	19-01-15	28	22500	550	24.44	24.22
	002	"	"	"	"	545	24.22	
	003	"	"	"	"	540	24.00	

*As Furnished by Client.

The Results relate only to the items tested.


G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.

Page No. 1/1,




Dr. MANJESH .L
ME (Civil Engg) Ph D MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
e-mail. manjeshl@yahoo.com

AE-10
 20/1

BANGALORE UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING

Phone Off: 080-22961935 / 1946
E-mail: centrans9@gmail.com

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15

1. TESTING OF FINE AGGREGATES :

Date: 06-12-2014

Sub: Testing of Fine Aggregates.

{Project*: Improvements to Roads, drains and Covering Slab at Chamundeshwari Layout
5th Main road left side in Ward No.10 (Doddabommasandra), Vidyanarayapura
Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 02-12-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyanarayapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

TABLE - 1.1 : SIEVE ANALYSIS					
IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -III	
04.75	97.20	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	86.30	60-95	75-100	85-100	
01.18	70.00	30-70	55-90	75-100	
600. mic	42.30	15-34	35-59	60-79	
300.mic	16.00	5-20	8-30	12-40	
150.mic	2.90	0-10	0-10	0-10	

TABLE 1.2 ;

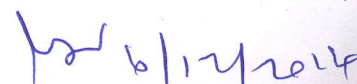
Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.42%	Not more than 8%
2.	Specific Gravity	----	2.55	-----

*As Furnished by Client.

The Results relate only to the items tested.

Page No. 1/1,


G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.


Dr. MANJESH .L
ME (Civil Engg) Ph D MISTE MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
e-mail. manjeshl@yahoo.com

BUB/CTE/2014-15

1. TESTING OF COARSE AGGREGATES (40 mm):

Date: 06-12-2014

Sub: Testing of Coarse Aggregates.

{Project*: Improvements to Roads, drains and Covering Slab at Chamundeshwari Layout
5th Main road left side in Ward No.10 (Doddabommasandra), Vidyaranyapura
Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 02-12-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing 40 mm Sample	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
		Single size	Graded
40mm	97.00	85-100	95 - 100
20mm	63.00	0 -20	30- 70
10mm	19.70	0 -5	10- 35
4.75mm	Nil	-----	0 - 5

TABLE 1.2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	16.40 %	Not to exceed 25 %
2.	Crushing value	-----,,-----	25.10%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.

The Results relate only to the items tested.

Page No. 1/1,

G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.

Dr. MANJESH L
ME (Civil Engg) Ph D MISTE INRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
e-mail: manjeshl@yahoo.com

BANGALORE UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING

Phone Off: 080-22961935 / 1946
E-mail: centrans9@gmail.com

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15

1. TEST REPORT ON CEMENT:

Date: 11-12-2014

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to Roads, drains and Covering Slab at Chamundeshwari Layout
5th Main road left side in Ward No.10 (Doddabommasandra), Vidyaranyapura
Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 02-12-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

PHYSICAL TESTS ON CEMENT

Brand* : Birla
Grade * : 53
Type * : OPC
Date : 03-12-2014 to 10-12-2014

SL No	Name of Test	Results	Requirements as per IS 12269-1987
		Cement Sample	
1	Initial setting time	150 min	Shall not be less than 30 min
2	Final setting time	260min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.70 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.40 mm	Shall not be more than 10 mm
5	Compressive strength g) 3 days (average of three results)	28.70N/ Sq mm	Shall not be less than 27 N/Sqmm
	h) 7 days (average of three results)	40.20 N/Sq mm	Shall not be less than 37N/Sqmm

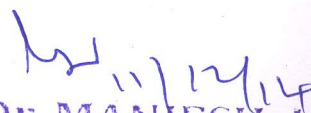
*As Furnished by Client.

The Results relate only to the items tested.

Page No. 1/1,


G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.




Dr. MANJESH L.
ME (Civil Engg) Ph D MISTE MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
e-mail. manjeshl@yahoo.com

BANGALORE UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING

Phone Off: 080-22961935 / 1946
E-mail: centrans9@gmail.com

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15

Date: 06-12-2014

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 10mm.

{Project*: Improvements to Roads, drains and Covering Slab at Chamundeshwari Layout
5th Main road left side in Ward No.10 (Doddabommasandra), Vidyaranyapura
Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 02-12-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

TABLE - 1

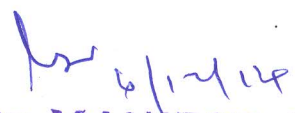
SL No	Details	For 10mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	10.0mm	10.0mm
02	Observed Wt/m Length Kg/m	0.621	0.567
03	Proof stress/Yield stress, f_y , N/mm^2	555.0	500.0
04	Bend/ Re bend Test	Ok	---
05	Percentage of Elongation, %	19.80	12.00
06	Ultimate Tensile Strength N/mm^2	625.0	545.0

*As furnished by Client.

The Results relate only to the items tested.


G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.

Page No. 1/1,


Dr. MANJESH .L
ME (Civil Engg) Ph D MISTE MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi, Campus
BANGALORE- 560 056
e-mail. manjeshl@yahoo.com



AE-10
VBB
7/1